BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

NAME OF WORK:- ***Detailed Estimate for Improvements to Roads and Drains at Balaji Layout in ward No. 08, Kodigehalli Sub Division.***

ESTIMATED COST 1000000.00

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
1	Removing BS Slab of drain and stacking.								
	(P.No.28, I.No.5.32 of PW,P&IWTD S.R 2012-13)								
		Sqm							
	Balaji Layout cross road								
			2	280.00		1.35	**756.00**		
	Basic Rate Rs.	41.18					**756.00**	44.47	**33622.65**
	Add 8% A.W Rs.	3.29							
	Total Rate Rs.	**44.47**							
2	Refixing stone slabs of drains and pointing in CM 1:3.								
	(P.No.28, I.No. 5.33 of PW,P&IWTD S.R 2012-13)								
		Sqm	Qty Same as I.No.1 (80%)				**604.80**	63.00	**38100.22**
	Basic Rate Rs.	58.33							
	Add 8% A.W Rs.	4.67							
	Total Rate Rs.	**63.00**							
3	KSRRB M300-2: Earth work excavation by manual means in Ordinary Soil involving an average horizontal throw up to 2mts and an average lift up to 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3.								
	(P.No.150, I.No.19.1 of PW,P&IWTD S.R 2012-13)								
		Cum							
	For New Drain at More Road		1	235.00	0.60	0.50	**70.5**		
	For Drain		2	280.00	0.45	0.30	**75.60**		
	Basic Rate Rs.	54.00					**146.10**	58.32	**8520.55**
	Add 8% A.W Rs.	4.32							
	Total Rate Rs.	**58.32**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (7.50cms thick)								
	(P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2012-13.)								
		Sqm							
	For New Drain at More Road		1	235.00	1.35		**317.25**		
			Qty Same as I.No.1 (20%)				**151.20**		
	Basic Rate Rs.	292.00					**468.45**	315.36	**147730.39**
	Add 8% A.W Rs.	23.36							
	Total Rate Rs.	**315.36**							
5	KSRRB 300-3. Earthwork excavation and foming in embankment by manual means in ordinary soil with initial lead upto 15 m. and lift of 1.5m. (When earth is taken from bank cutting or from borrow pits) including breaking of clods, spreading to required line and level, forming, and cost of all labour complete as per specifications. (excluding watering and compaction of earth)						**Cum**		
	(P.No.150, I.No.19.3 of PW,P&IWTD S.R 2012-13)		1	280.00	5.00	0.20	**280.00**		
	Basic Rate Rs.	69.00					**280.00**	74.52	**20865.60**
	Add 8% A.W Rs.	5.52							
	Total Rate Rs.	**74.52**							

6	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. (P. 168 Item No. 20.18) SR 2012-13						**Cum**		
			1	280.00	5.00	0.150	**210.00**		
	Basic Rate Rs.	981.00					**210.00**	1059.48	**222490.80**
	Add 8% A.W Rs.	78.48							
	Total Rate Rs.	**1059.48**							
7	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. (P. 172, Item No. 21.6) SR 2012-13						**Sqm**		
			1	280.00	5.00		**1400.00**		
	Basic Rate Rs.	36.70					**1400.00**	39.64	**55490.40**
	Add 8% A.W Rs.	2.94							
	Total Rate Rs.	**39.64**							
8	KSRRB M500-18. Providing and laying semi dense bituminous concrete 25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 complete in all respects as per specifications. with 80/100 grade bitumen using 40-60 HMP using mechanical paver (P. 175, Item No. 21.20.5) SR 2012-13						**Cum**		
			1	280.00	5.00	0.025	**35.00**		
	Basic Rate Rs.	8326.00					**35.00**	8992.08	**314722.80**
	Add 8% A.W Rs.	666.08							
	Total Rate Rs.	**8992.08**							
9	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (P. 5, I.No. 2.3) SR-2012-13						Cum		
	C.D.1		2.00	5.00	1.80	0.90	**16.20**		
							16.20	135.00	**2187.00**
	Basic Rate	125.00							
	Area Weightage @ 8%	10.00							
	Total	135.00							

10	KSRB 4-1.2: Providing and laying in position plain cement concrete of I mix M10 With OPC cement @ 220 Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P. 12, I.No. 4.2) SR-2012-13						Cum		
	C.D.1		2.00	5.00	1.80	0.15	**2.70**		
							2.70	4129.92	**11150.78**
	Basic Rate	3824.00							
	Area Weightage @ 8%	305.92							
	Total	4129.92							
11	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons (page. 17, Item No. 4.31)SR 2012-13.						Sqm		
	C.D.1		2.00	5.00	1.20		**12.00**		
	Side		8.00	5.00	0.75		**30.00**		
							42.00	244.08	**10251.36**
	Basic Rate	226.00							
	Area Weightage @ 8%	18.08							
	Total	244.08							
12	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges)Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-3320Kg/cum) (P. 19, I.No. 4.49.1) SR-2012-13						Cum		
	C.D.1 Bottom		2.00	5.00	1.80	0.10	**1.80**		
	Side Wall		4.00	5.00	0.23	0.75	**3.45**		
	Deck Slab		2.00	5.00	1.80	0.15	**2.70**		
							7.95	5639.76	**44836.09**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	5639.76							
13	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (P. 19, I.No. 4.46) SR-2012-13						Qtl		
	C.D.1						**636.00**		
	7.95x80Kg/Cum						**6.36**	7323.48	**46577.33**
	Basic Rate	6781.00							
	Area Weightage @ 8%	542.48							
	Total	7323.48							

14	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 5.00 Km (Page No.141)					Cum		
		Qty. Vide Item No. 3				146.10		
		Qty. Vide Item No. 5				280.00		
		Qty. Vide Item No. 9				16.20		
						442.30	81.00	35826.30
	Basic Ratefor haulage of materials as per ite	12.80						
	Average weight of earth 1.28 tonne/Kg for	62.20						
	Add loading and unloading vide item No. 17	75.00						
	Area Weightage @ 8%	6.00						
	Total	81.00						
15	Miscesallaneous Charges	L/S						7627.72
							Total	1000000.00
	(Rupees:- Ten Lakhs Only)							

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2012-2013.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs. 10 Lakh
Rupees Ten Lakhs only
Under P2434 Development Works for Bangalore City
Registered as EE ( ) No 3 9
Subject to conditions contained in enclosed memo EE (Y) No 542 /2012-13
Dt 10.09.2012 Estimate A/Sanctioned SC(Ya) 414 No 542/2012-13
dated 10.09.2012 Rs 10 Lakh

Technical Sanction for Rs. 10.00 lakhs
Ten lakhs only
P-2434 Development Works for Bangalore city
Registered as EE No: 216 Subject to conditions contained under G.O. No: 916/12-13/ Dt. 10.9.12

AE/JE

EE (BTP. Div.)

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92